12CH DMX DIMMER PACK
USER'S MANUAL

HS—C14(2KW/CH)

Version: 2.0

12 CH LCD Dimmer Pack

Thanks for purchasing CK211 12 CH dimmer pack. This controller is a 12-channel dimmer pack. It can work alone or used as a DMX pack.

When it works stand alone, there are 12 built-in programs can be chosen, the speed can be adjusted. When work as a DMX pack, it can be controlled by 1 to 12 channels, by address between 001 to 512. The dimming is various in SWITCH, LINEAR. The dimming can be made together or channel by channel. It has the function of manual operation, pre-heating, circuit brake protection, phase compensation, DMX M/S, etc…

Before operation, please carefully read this manual first. Thanks!

Warning:

1. This device must be earthed. All channels should be switched off before you connect it to mains.
2. To prevent fire or shock hazard, do not expose this device to rain or moisture.

Parameter:

POWER SUPPLY---------- SINGLE PHASE AC 220V 50-60HZ

3-PHASEAC 380V 50-60HZ

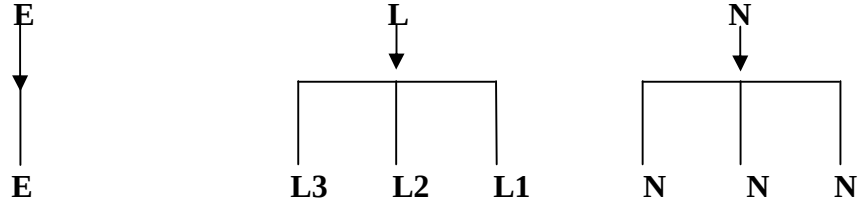
LOAD----------MAX：12*10A(20A)/CH

DMX OUTPUT----------3/5 PIN female XLR socket

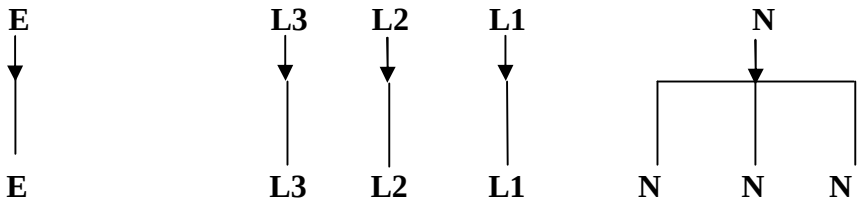
DMX INPUT----------3/5 PIN male XLR socket

THE POWER SUPPLY ON-LINE DIAGRAM：

SINGLE PHASE AC230V 50-60HZ：



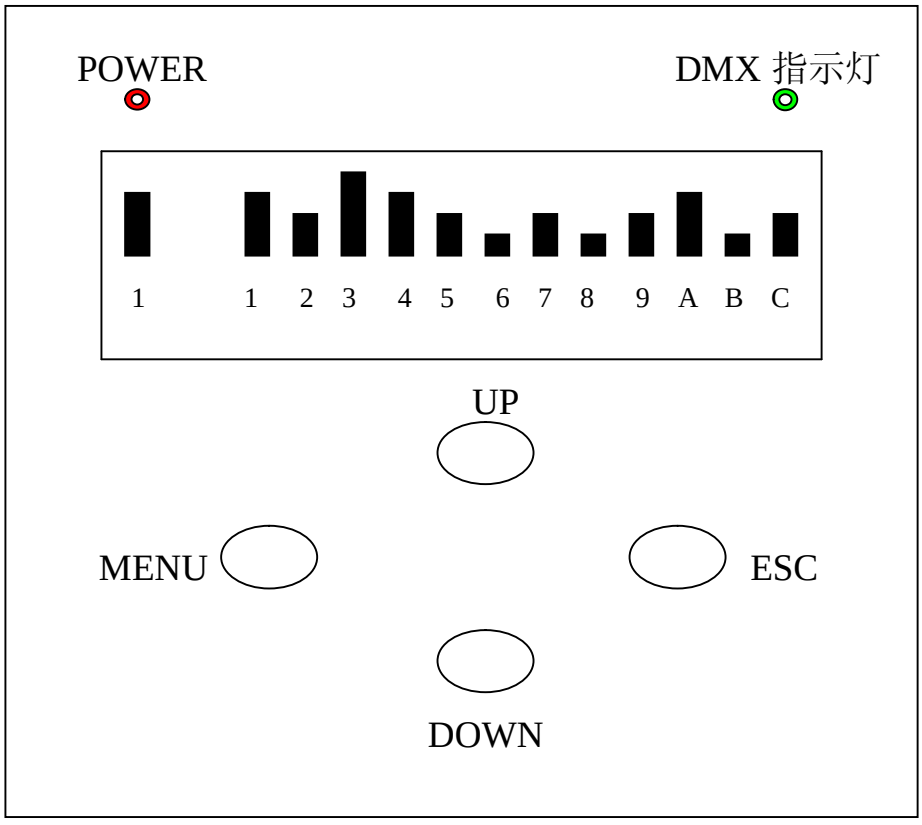
3-PHASE AC380V 50-60HZ：



Operating instructions

1. START MENU

Connect to mains and switch on the device, the lcd display shows "CKC211 12CH DIMM" & " Welcome To Use ". and start the automatic check to the alternate current, and then, follow the memory of last time and enter to start menu. Beginning Menu consists of a row of dynamic images and a row of characters , the first row represents the intensity value, and the second row indicates the channel.



Adjust whole intensity temporarily: Tap UP/DOWN button to select desired intensity, each tap will change intensity once. Pressing the button for two seconds changes channel intensity quickly. Adjust whole intensity temporarily is invalid when DMX received or Dmx fail/DMX

2. FUNCTION MENU

3.1 MAIN MENU

Under Starting menu, press MENU button, you can select the following main menus: Dmx fail、Dmx address、Preheat、Max level、Curve and Manual. The LCD displays as following:

Dmx fail

Press UP / DOWN button once, the display will show the five Main menus one by one.
Under the Main menu, press ESC to exit to the Start menu.
Under the main menu, press MENU, Then enter the Sub menu.

3.2 SUB MANU

3.2.1 Dmx fail menu

A. Under the main menu of Dmx fail, press MENU and enter the Sub menu of Dmx fail, it will display the current mode.
E.g. if it is running built-in scene 8, it displays as following:

Dmx fail Prog08

_ means the active cursor

B. Press UP / DOWN once to choose from DMX / Prog01-12.
[DMX]: Receiving DMX signal.
[ProgXX]: Running one of the built-in scenes 01-12, when there is DMX signal during running, the DMX signal will precede the built-in scenes.
When there is DMX signal, if it is now under the Menu, the display will remains unchanged, if it is now under the Start menu, it will show [DMX Received].
C.If you select DMX, you can tap ESC button to exit.
D.If you select Prog. 1-12, tap ESC button, speed menu is activated. You can select the chasing speed from 0.1 to 20 seconds using UP/DOWN button. After you've finished your setting, tap ESC button to exit.

3.2.2 Dmx address Menu

A. Under the main menu of Dmx address, press MENU and enter the Sub menu of Dmx address, it will display the current DMX address setting method.
E.g. the current DMX address setting method is Block, it displays as following:

Dmx address Block

_ means the active cursor

B. Press UP / DOWN once to choose from Block / Single.
[Block]: Setting the receiving address for the first channel. The other addresses will be added one by one, and can be checked via the Single function.
[Single]: Setting the address for single channel, it does not affect the other addresses.

C. Under the Sub menu of Dmx address, press ESC to exit to its main menu. Press MENU to enter to its setting.

C.1. Set up Block for the Dmx address. E.g. If the first channel address is 011, it will display as following:

Dmx Start addr Value =[011]

_ means the active cursor

Press UP / DOWN button once, address will increase or decrease by 1, then all channels will be updated, based on the first channel address, all addresser after the first channel address will increase/decrease by 1. Press and hold UP / DOWN button more than two seconds, the address will increase or decrease quickly, but not exceed the range of 001-512. Press ESC to exit to the Sub menu of Dmx address / Block. Invalid to Press MENU.

C.2. Set up Single for the Dmx address. E.g. If the first channel address is 011, the active cursor will be in the first row, showing the number of the channel, the display is as following:

Dmx addr CH[01] Value = [011]

_ means the active cursor

Press the UP / DOWN button once, the number of the channel increaser or decreases by 1, the second line shows the respective channel address. Press and hold the UP / DOWN button more then two seconds, the number of the channel increases or decreases quickly, the second line shows the respective channel address accordingly. The number of the channel is from Chan [01] to Chan[12].

Press MENU, the active cursor moves to the second row, showing the address of the channel. Press the UP / DOWN button, the address increases of decreases by 1, the other channel address remains unchanged. Press and hold the UP / DOWN button more than two seconds, address increases or decreses quickly. The channel address range is 001~512.
E.g. If the number of the channel is 3, the channel address is 023, then show as following:

Dmx addr CH[03] Value = [023]

_ means the active cursor

Press MENU button, the active cursor will switch between the first row and the second row, press the UP / DOWN button to change the respective value.

Press ESC to exit to the Sub menu of DMX ADDR / SINGLE.

3.2.3：Preheat menu

A. Under the main menu of Preheat, Press MENU to enter the Sub menu of Preheat, the display will show the current setup for Preheat.
E.g. If the current setup is All, the display shows as following:

Preheat _All

_ means the active cursor

B. Press the UP / DOWN button to choose from All / Single.
[All]: based on the value of the first channel, set up the value for all channels, and can be checked by Single function.
[Single]: Setup for a single channel, do not affect other channel.

C. Under the Sub menu of Preheat, press ESC button to exit to the main menu of Preheat. Press MENU button to enter its setting.

C. 1. Setup All for the Preheat.
E.g. If the value of the first channel is 20%, then the display will show the following:

Preheat All Value = [020%]

_ means the active cursor

Press the UP / DOWN button once, the value increases or decreases by 1%, at this time the value of all channels is same as the first channel. Press and hold the UP / DOWN button more then two seconds, the value will increase / decrease quickly. The value range is between 000%-50%.

Press the ESC button to exit to the Sub menu of Preheat / All. It is invalid to press MENU.

C. 2. Setup Single for the Preheat.
E.g. If the value of the first channel is 23%, the active cursor will be in the first row, showing the number of the channel, the display is as following:

Preheat CHAN[01] Value =[023%]

_ means the active cursor

Press the UP / DOWN button once, the number of the channel increases or decreases by 1, it will shows the respective channel value on the second row. Press and hold the UP / DOWN button more than two seconds, the number of the channel increases or decreases

quickly, the respective channel value in the second row varies accordingly. The number of the channel is from Chan[01] to Chan[12].

Press the MENU button, the active cursor moves to the second row, showing the value of the channel is changeable. Press the UP / DOWN button once, the channel value will increase / decrease by 1%, the value of other channel remains unchanged. Press and hold the UP / DOWN button more then two seconds, the channel value will increase / decrease quickly. The channel value is between 000% to 50%.
E.g. If the number of the channel is 3, the value of this channel is 35%, the display shows as following：

Preheat CHAN[03]
Value =[03_5%]

_ means the active cursor

Press the MENU button, the active cursor switches between the first row and the second row, to change relevant value, press the UP / DOWN button.
Press ESC to exit to the Sub menu of Preheat / Single.

3.2.4：Max level menu

A.Under the main menu of Max level, Press MENU to enter the Sub menu of Max level, the display will show the current setup for Max level.
E.g. If the current setup is All, the display shows as following:

Max level
_All

_ means the active cursor

B.Press the UP / DOWN button to choose from All / Single.
[All]: based on the value of the first channel, set up the value for all channels, and can be checked by Single function.
[Single]: Setup for a single channel, do not affect other channel.

C.Under the Sub menu of Max level, press ESC button to exit to the main menu of Max level. Press MENU button to enter its setting.

C. 1. Setup All for the Max level.
E.g. If the value of the first channel is 20%, then the display will show the following:

Max level All
Value =[02_0%]

_ means the active cursor

Press the UP / DOWN button once, the value increases or decreases by 1%, at this time the

value of all channels is same as the first channel. Press and hold the UP / DOWN button more then two seconds, the value will increase / decrease quickly. The value range is between 000%-100%.

Press the ESC button to exit to the Sub menu of Max level / All. It is invalid to press MENU.

C. 2. Setup Single for the Max level .
E.g. If the value of the first channel is 23%, the active cursor will be in the first row, showing the number of the channel, the display is as following:

Max level CH [0<u>1</u>]
Value = [023%]

_ means the active cursor

Press the UP / DOWN button once, the number of the channel increases or decreases by 1, it will shows the respective channel value on the second row. Press and hold the UP / DOWN button more than two seconds, the number of the channel increases or decreases quickly, the respective channel value in the second row varies accordingly. The number of the channel is from Chan[01] to Chan[12].

Press the MENU button, the active cursor moves to the second row, showing the value of the channel is changeable. Press the UP / DOWN button once, the channel value will increase / decrease by 1%, the value of other channel remains unchanged. Press and hold the UP / DOWN button more then two seconds, the channel value will increase / decrease quickly. The channel value is between 000% to 100%.
E.g. If the number of the channel is 3, the value of this channel is 35%, the display shows as following：

Max level CH [03]
Value = [03<u>5</u>%]

_ means the active cursor

Press the MENU button, the active cursor switches between the first row and the second row, to change relevant value, press the UP / DOWN button.
Press ESC to exit to the Sub menu of Max level / Single.

3.2.5: CURVE Menu

A. Under the main menu of CURVE, press MENU to enter the Sub menu of CURVE, the display will show the characteristic of the current setup. E.g. The current is ALL, the display shows the following:

Curve All

_ means the active cursor

B. Press the UP / DOWN button once to choose from All / Single.
[All]: based on the characteristic of the first channel, set up the characteristic for all channels, and can be checked by Single function.
[Single]: Setup for a single channel, do not affect other channel.

C. Under the Sub menu of CURVE, press ESC button to exit to the main menu of CURVE. Press MENU button to enter its setting.

C. 1. Setup All for the CURVE.
E.g. If the characteristic of the first channel is Linear, then the display will show the following:

Curve All Value = [Linear]

_ means the active cursor

Press the UP / DOWN button to choose from: Linear / Switch.
[Linear]: Linear dimming.
[Switch]: Switch dimming. The output is 0 under 50%, the output is 100% above 50% to 100%.
Press the ESC button to exit to the Sub menu of CURVE / All. It is invalid to press MENU.

C. 2. Setup Single for the CURVE.
E.g. If the characteristic of the first channel is 23%, the active cursor will be in the first row, showing the number of the channel, the display is as following:

Curve CHAN[01] Value = [Linear]

_ means the active cursor

Press the UP / DOWN button once, the number of the channel increases or decreases by 1, it will shows the respective channel value on the second row. Press and hold the UP / DOWN button more than two seconds, the number of the channel increases or decreases quickly, the respective channel value in the second row varies accordingly. The number of the channel is from Chan[01] to Chan[12].

Press the MENU button, the active cursor moves to the second row, showing the characteristic of the channel is changeable. Press the UP / DOWN button to choose from: Linear / Switch.
E.g. If the number of the channel is 3, the characteristic of this channel is SWITCH, the display shows as following：

Curve CHAN[03]
Value = [Switch]

_ means the active cursor

Press the MENU button, the active cursor switches between the first row and the second row, to change relevant value, press the UP / DOWN button.
Press ESC to exit to the Sub menu of CURVE / Single.

3.2.6：MANUAL menu(MANUAL is invalid when DMX received or Dmx fail/DMX)

A.Under the main menu of MANUAL, Press MENU to enter the Sub menu of MANUAL, the display will show the current setup for MANUAL.
E.g. If the current setup is All, the display shows as following:

Manual
All

_ means the active cursor

B.Press the UP / DOWN button to choose from All / Single.
[All]: based on the value of the first channel, set up the value for all channels, and can be checked by Single function.
[Single]: Setup for a single channel, do not affect other channel.

C.Under the Sub menu of MANUAL, press ESC button to exit to the main menu of MANUAL. Press MENU button to enter its setting.

C. 1. Setup All for the MANUAL.
E.g. If the value of the first channel is 20%, then the display will show the following:

Manual All
Value = [020%]

_ means the active cursor

Press the UP / DOWN button once, the value increases or decreases by 1%, at this time the value of all channels is same as the first channel. Press and hold the UP / DOWN button more then two seconds, the value will increase / decrease quickly. The value range is between 000%-100%.

Press the ESC button to exit to the Sub menu of MANUAL / All. It is invalid to press MENU.

C. 2. Setup Single for the MANUAL.
E.g. If the value of the first channel is 23%, the active cursor will be in the first row, showing the number of the channel, the display is as following:

Manual CHAN[01]
Value = [023%]

_ means the active cursor

Press the UP / DOWN button once, the number of the channel increases or decreases by 1, it will shows the respective channel value on the second row. Press and hold the UP / DOWN button more than two seconds, the number of the channel increases or decreases quickly, the respective channel value in the second row varies accordingly. The number of the channel is from Chan[01] to Chan[12].

Press the MENU button, the active cursor moves to the second row, showing the value of the channel is changeable. Press the UP / DOWN button once, the channel value will increase / decrease by 1%, the value of other channel remains unchanged. Press and hold the UP / DOWN button more then two seconds, the channel value will increase / decrease quickly. The channel value is between 000% to 100%.
E.g. If the number of the channel is 3, the value of this channel is 35%, the display shows as following:

Manual CHAN[03]
Value = [035%]

_ means the active cursor

Press the MENU button, the active cursor switches between the first row and the second row, to change relevant value, press the UP / DOWN button.
Press ESC to exit to the Sub menu of MANUAL / Single.

3. DMX M/S Control

Keep each device with the same setup. Connect them and a DMX controller with 3PIN XLR-cable. Now it can work under M/S mode with the DMX controller.

The built-in programs description

PROGRAM	DESCRIPTION
PROG01	000000000001, 000000000010, 000000000100, 000000001000, 000000010000, 000000100000, 000001000000, 000010000000, 000100000000, 001000000000, 010000000000, 100000000000
PROG02	100000000000, 010000000000, 001000000000, 000100000000, 000010000000, 000001000000, 000000100000, 000000010000, 000000001000, 000000000100, 000000000010, 000000000001
PROG03	100000000001, 010000000010, 001000000100, 000100001000,

	000010010000, 000001100000
PROG04	011111111111, 101111111111, 110111111111, 111011111111, 111101111111, 111110111111, 111111011111, 111111101111, 111111110111, 111111111011, 111111111101, 111111111110
PROG05	011111111110, 101111111101, 110111111011, 111011110111, 111101101111, 111110011111
PROG06	000000000001, 000000000011, 000000000111, 000000001111, 000000011111, 000000111111, 000001111111, 000011111111, 000111111111, 001111111111, 011111111111, 111111111111, 000000000000

PROGRAM	DESCRIPTION
PROG07	111111111111, 011111111111, 001111111111, 000111111111, 000011111111, 000001111111, 000000111111, 000000011111, 000000001111, 000000000111, 000000000011, 000000000001, 000000000000
PROG08	100000000000, 110000000000, 111000000000, 111100000000, 111110000000, 111111000000, 111111100000, 111111110000, 111111111000, 111111111100, 111111111110, 111111111111, 000000000000
PROG09	100000000001, 110000000011, 111000000111, 111100001111, 111110011111, 111111111111, 000000000000
PROG10	100000000000, 110000000000, 111000000000, 111100000000, 111110000000, 111111000000, 111111100000, 111111110000, 111111111000, 111111111100, 111111111110, 111111111111, 111111111110, 111111111100, 111111111000, 111111110000, 111111100000, 111111000000, 111110000000, 111100000000, 111000000000, 110000000000, 100000000000, 000000000000
PROG11	110000000000, 001100000000, 000011000000, 000000110000, 000000001100, 000000000011
PROG12	000001100000, 000010010000, 000100001000, 001000000100, 010000000010, 100000000001, 000000000000

* If you have any question please send e ail to support@hosenlighting.com